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1   **XML and information integration: XPath query transformation based on XSLT stylesheets**
    Sven Groppe, Stefan Böttcher
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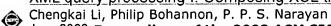   **Publisher:** ACM Press
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    Whenever XML data must be shared by heterogeneous applications, transformations between different application-specific XML formats are necessary. The state-of-the-art method transforms entire XML documents from one application format into another e.g. by using an XSLT stylesheet, so that each application can work locally on its preferred format. In our approach, we use an XSLT stylesheet in order to transform a given XPath query such that we retrieve and transform only that part of the XML docum ...

    Keywords: XPath, XSLT, query rewriting, query transformation

2   **XML query processing I: Composing XSL transformations with XML publishing views**
    Chengkai Li, Philip Bohannon, P. P. S. Narayan
    June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**
    Publisher: ACM Press
    Full text available: 🗎 pdf(225.65 KB)   Additional Information: full citation, abstract, references, citings, index terms

    While the XML Stylesheet Language for Transformations (XSLT) was not designed as a query language, it is well-suited for many query-like operations on XML documents including selecting and restructuring data. Further, it actively fulfills the role of an XML query language in modern applications and is widely supported by application platform software. However, the use of database techniques to optimize and execute XSLT has only recently received atten ...

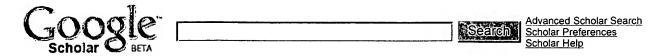3   **Query optimization in XML structured-document databases**
    Dunren Che, Karl Aberer, Tamer Özsu
    September 2006 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 15 Issue 3
    Publisher: Springer-Verlag New York, Inc.
    Full text available: 🗎 pdf(687.23 KB)   Additional Information: full citation, abstract

    While the information published in the form of XML-compliant documents keeps fast mounting up, efficient and effective query processing and optimization for XML have now become more important than ever. This article reports our recent advances in XML structured-document query optimization. In this article, we elaborate on a novel approach and the techniques developed for XML query optimization. Our approach performs

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... a recursive function that performs the desired **transformation**. ... for any expression
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